

A recent article in The Economist

Black cabs

All latest updates

High rents and Uber drive London's biggest taxi-driver training centre out of business

What I don't know isn't knowledge

Nov 4th 2015 | Britain

(ⓒ) Timekeeper
Ike {376 y Tweet {19}



Über - informal taxi services



AIRbnb - informal accomodation



The critics of Über

Who's Driving You?

ABOUT | INCIDENTS | PRESS + | RESOURCES + | VIDEOS | BLOG | CONTACT f y

5

7

TAXIS, TNCS AND DEREGULATION: IS HISTORY REPEATING ITSELF?

"REGULATIONS" ARE SIMPLY RULES. THE IMPACT OF UBER AND LYFT VYING TO AVOID SAFETY RULES IS VERGING ON TAXICAB DEREGULATION. SOME MAY SEE THIS AS THE WAY FORWARD. BUT THE U.S. HAS A FAILED HISTORY OF TAXICAB DEREGULATION.

The supporters of Über

Lessons From Uber: Why Innovation And Regulation Don't Mix



FULL BIO \sim

To Über or not to Über - health and wellness

- Three cases:
- 1. Getting over a heart attack
- 2. Breathing difficulties (COPD)
- 3. Persons with heating impairments
- What are the implications for start-ups of
- Working with the formal health care system OR
- Working outside the formal system?

Case 1 - heart attacks



Congestive Heart Failure (CHF)

What is it?	A condition where the heart is unable to pump sufficient blood to meet the body's needs.	
What are the main symptoms?	Shortness of breath, excessive tiredness, leg swelling.Coronary heart disease, high blood pressure, atrial fibrillation, heart valve disease, excessive alcohol use	
What are the main causes?		
How many people have it?	The most common reason for hospitalisation of the 65+ group. Readmission to hospital ranges from 29-47%.	
How big is the global economic impact?	USD 108 billion [2012]	

Heart failure economic burden statistics The economic burden of heart failure goes beyond the cost of medicine

OF ALL HEART FAILURE-

What is the cost of heart failure on the global economy?

ASSOCIATED COSTS IN THE EU ARE DUE TO HOSPITALISATION¹

\$65 BILLION

\$43 BILLION IN INDIRECT COSTS

References: 1.Neumann T, Biermann J, Neumann A, et al. Heart failure: the commonest reason for hospital admission in Germany. Dtsch Arztebl Int. 2009;106(16):269-275. 2.Cook C, Cole G, Asaria P, Jabbour R, Francis DP. The annual global economic burden of heart failure. Int J Cardiol. 2014;171(3):388-376.

Heart failure economic burden statistics The economic burden of heart failure goes beyond the cost of medicine

ESTIMATED GLOBAL VALUES OF DIRECT, INDIRECT AND TOTAL COSTS OF HEART FAILURE PER COUNTRY IN YEAR 2012²

Country name	Direct cost of HF (\$ million)	Indirect cost of HF (\$ million)	Overall HF costs (\$ million)
United States	20.900	9.800	30.700
Japan	7.844	3.576	11.420
Germany	5.340	2.040	7.380
France	4.314	1.568	5.882
United Kingdom	3.223	1.461	4.684
Canada	2.891	1.093	3.984
Italy	2.716	1.208	3.924
Russian Federation	1.774	1.209	2.983
Australia	1.951	912	2.863
Spain	1.810	810	2.619
Korea, Rep.	1.156	678	1.834
Netherlands	1.311	463	1.775
Switzerland	975	379	1.354

What are the current solutions?

- Hospitalisation
- Post-hospitalisation
 - Formal follow-up of patient rehabilitation by hospital/own doctor

Informal follow-up by carers in the

 Readmission of patients who have had a heart attack (non-compliance with medications & diet, social factors including isolation) 29-47% of cases

Source: de Vries, Larissa (2008) Telemonitoring for informal care: pitfall or dare? A top-down approach for telemonitoring: financial potential of telemonitoring for informal carers of elderly with dementia. Master's thesis in Health Services Innovation. Sittard Faculty of Health, Medicine and Life Sciences Maastricht University March – December 2008

To Über or not to Über?



13

Not to Über - working with formal system

- Health care has multiple stakeholders
- It takes time to map out the 'ecosystem' and negotiate a solution
- Understandable tendency to be conservative
- Sub-optimisation (focusing on subsystems not not thinking about the big picture)

Not to Über - working with formal system HIT - Heart Insufficiency Telemedicine



Case 2: Breathing difficulties



Chronic Obstructive Pulmonary Disease (COPD aka COLD, COAD)

What is it?	A chronic lung disease - poor airflow
What are the main symptoms?	Shortness of breath, coughing, sputum
What are the main causes?	Tobacco smoking, air pollution including cooking on open fires, genetical predisposition
How many people have it?	329 million suffer from it 2.9 million die from it each year [2013]
How big is the global economic impact?	USD 2.1 trillion [2010]

What do patients currently do?

- Risk avoidance behaviours (not going outdoors when there is air pollution)
- Try to find their inhaler
- Try to send a text message to their family and friends (cannot speak during an attack)

What are the main problems?

- Not knowing how to live with a chronic disease like COPD
- Coping with an breathing attack by using an inhaler (can't call for help)



Managing family and friends during an attack (can't tell them what's going on)

17

What are the options? (industrialised countries)







Pulse Ox • Heart rate • Blood oxygen level • Steps

25-06-201

Propeller health Intelligent Bluetooth button to keep track of medication use

Bluetooth beeper Integrated in inhaler to locate it when needed

How does it work? (industrialised countries)



21

What's in it for the patient?

- Reduced physical discomfort
- Reduced stress and emotional discomfort

How does it work? (industrialised countries)

Solution

- Beeping sound to find inhaler
- Reminds the user if he/she forgets the inhalator



22

What's in it for family members and friends?

Reduced stress and emotional discomfort

What's in it for health care?

Solution

- Health statistics
- Helps doctors understand the patient's condition and improve treatment
- Shares data via Apple HealthKit

25-06-2015 s090569 Emil Alexan s120036 Christian He

103220 Prashanth Shanmuganat 094096 Martin Heyn Skytte 100524 Mia Louise Segaard



25

Cost structure

Costs & Expenses

- Development team
- A beeper would likely cost around 20-40\$ - This could be paid through insurance
- Alternatively, inhaler manufacturers could be partners

25-06-2015 s090569 Emil Alexander Holi s120036 Christian Holm-Ped s103220 Prashanth Shanmu s094096 Martin Heyn Skutte



What's in it for the suppliers of inhalers?

- Being able to provide a better service more safely
- Can this be done informally or does this require certification with the Food and Drugs Administration (FDI)?
- To Über or not to Über?

Revenue streams

Revenue

- Monthly user payment
- Medical companies' access to ratings and statistics
- Sponsored by medicinal companies or foundations

25-06-2015 s090569 Emil Alexander Holm s120036 Christian Holm-Pedersen s10320 Prashanth Shammuganathan s094096 Martin Heyn Skytte s100524 Mia Louise Segaard





 $^{100\% \}approx 7,000$ million people

PEOPLE FIRST

Hearing statistics (WHO)



To Über or not to Über?

- Work with the formal ecosystem to help people with hearing disabilities?
- Work with the 90% of those who need something by doing something different?
- Or both?

Most of the target audience have a mobile phone



The majority cannot afford hearing aids

- Offer hearing tests on the phone (no competition in areas with few doctors and audiologists)
- Offer apps on the phone that can do some of the jobs a hearing aid can do
- Look at alternative revenue streams
- Parallels to 'unused resources' at Über - private cars only used 4-5% of time

- **3 cases different strategic options**
- Businesses the animal metaphor

Of mice, elephants and gazelles



37

Of mice, elephants and gazelles

Company category	Employees	Turnover
Top 500 (big)	>250	
Medium-sized	<250	≤ HKD 500m
Small	<50	≤ HKD 100m
Micro	<10	≤ HKD 20 m

Of mice, elephants and gazelles



median age



Of mice, elephants and gazelles

Of mice, elephants and gazelles



Of mice, elephants and gazelles





"If the rate of change on the outside exceeds the rate of change on the inside, the end is near." - Jack Welch

45

Of mice, elephants and gazelles



Success breeds complacency. **Complacency breeds failure.** Only the paranoid survive." - Andy Grove



Start-ups: how to protect your intellectual property?



NOW that Uber is muscling in on their trade, London's cabbies have become even surlier than usual. Meanwhile, the world's hoteliers are grappling with Airbnb, and hardwaremakers with cloud computing. Across industries, disrupters are reinventing how the business works. Less obvious, and just as important, they are also reinventing what it is to be a company.

Conclusions

- To Über or not to Über the balance between innovation and vested interests
- In health and wellness, there are start-up options in the informal sector
- Nation-states will have to review their competitiveness
- Rethink start-up legal frameworks

Thank you!



• Datos:

- Peter Olaf Looms
- Ellesvinget 25
- DK-2950 Vedbæk
- Denmark
- E: polooms@gmail.cc
- M: +**45** 51 56 75 46
- Wechat: peterolafloo

49

A shift from PLCs to contract law

- Start-ups are badly served by the existing legal framework
- Entrepreneurs often have no clear IP strategy to get them past the early stages into Series A and Series B funding
- A serious rethink is needed about how to help mice to become elephants and ultimately elephants!